

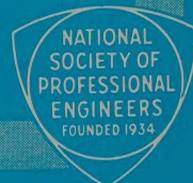


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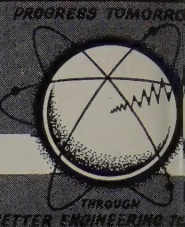
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HOW FAR SHOULD WE GO?

By J. P. MURPHY, ISPE Treasurer

At the meeting in Bloomington on September 12, 23 new members (120 National Grade) with a median age of 32 were voted into the Society by the Board of



J. P. Murphy

Direction, making our total ISPE membership 3020 as of that date. This is a satisfying statistic to those who recall that the 2000 goal seemed almost unattainable just two years ago. The increased membership has provided sufficient revenue to service the larger membership and to provide some increase in Society activities. The

median age of our new membership has also added a much needed youthful zest to our venerable Society and requires revaluation of services and benefits offered by the Society to members.

A recent study by the Budget and Finance Committee indicates that for a relatively small cost the Society could provide a great increase in service and benefits to members by investing in the following activities:

1. An accelerated public relations program.
2. Providing adequate legal counsel on ethics cases and for legislative activities.
3. An off-year study of legislation beneficial to the professional engineer and an on-year program of legislative activity to safeguard and enhance the interests of the professional engineer.
4. Better communications within the Society.
5. Financial support to committees and functional sections for investigations and distribute reports and findings.

The relatively small cost of such activities, if pro-rated out to the membership, would require an adjustment in state dues. Your Chapter representatives have been asked to discuss the Society program with the members and to report interest, opposition, or alternative ideas at a subsequent Board meeting.

If sufficient interest in this or some other kind of accelerated program is indicated, the matter will be presented for approval by the membership by ballot. Will you help in answering—HOW FAR SHOULD WE GO?

I. S. P. E. EXECUTIVE DIRECTOR SERVES MILITARY DUTY

Executive Director Larry Goddard attended a special course conducted by the Department of the Army Information Office in Ft. Leavenworth, Kansas, from September 14 through September 26.

The course, given to familiarize selected persons from throughout the country with the latest Army developments in research and other fields which will affect the future defense of the country.

Goddard was selected as one of 33 U. S. Army Reserve officers from 50 states and Puerto Rico to take the course.

I. S. P. E. MEMBERS ACTIVE IN PUBLIC SERVICE FIELD

Members of the Illinois Society of Professional Engineers have taken an active part in an inquest into the carbon monoxide deaths of an Evanston couple caused by faulty installation of a gas-fired air conditioning system in their home.

After determining the cause of the deaths as carbon monoxide poisoning, the jury made two recommendations intended to prevent a recurrence of the accident.

The jury called for a revision of building codes and for closer cooperation between utilities and municipalities.

Maurice Gamze and Gerald Marks, both of Chicago Chapter of ISPE, were members of an inspection group which testified before the coroner's jury relative to the case.

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SUMMARY OF SEPTEMBER BOARD OF DIRECTION MEETING

I.S.P.E. Board of Direction met in Bloomington on September 12, 1959. Some of the highlights of this meeting are as follows:

1. The society membership has passed the 3000 mark. More than 123 new members were admitted on the membership ballot approved at the meeting.

2. The Board approved the general plan for a 75th year engineering Exposition to be held in Springfield in conjunction with the Society's 75th Annual Meeting in May, 1960.

3. The Board approved Society sponsorship of an Engineers in Industry Utilization Conference to be held in Chicago on December 1 and 2, 1959. This Conference is held in cooperation with the President's Committee for Engineers and Scientists and is handled through the office of Civil and Defense Mobilization in Washington. It is expected that 200 to 300 executives from Illinois industrial firms will attend. This is a part of I.S.P.E.'s expanding PUBLIC RELATIONS PROGRAM.

4. The Board also reviewed a financial and professional activity report, that bears heavily on the future development of the Society. The report, prepared by the Budget and Finance Committee, proposed new and expanded I.S.P.E. programs in the following areas:

- a) Legislation—to build an aggressive rather than defensive program.
- b) Legal Counsel—to put "backbone" into its work on Ethics and Practice and Legislation.
- c) Communications—to develop and maintain membership interest through up-to-date releases and publications.
- d) Function Sections and Committees—to give minimum financial assistance to their work.
- e) Public Relations—to promote public appreciation of the profession through an active public information program.

The Budget study indicated that in the past the Society has not had proper financing in any of these above areas. The majority of the Budget Funds is spent on "housekeeping". By strengthening the dues schedule, funds can become available in 1961 to step-up all activities.

5. Various committee reports from the Administrative, Operations, Professional and Public Relations Groups indicated that the Society now has more activity and more members than at any other time in its history!

6. The next Board of Direction Meeting will be in Decatur on November 7, 1959.

ENGINEERS' UTILIZATION CONFERENCE

In May 1958 Bradley University and the Illinois Society of Professional Engineers, at the suggestion of the President's Committee for Engineers and Scientists held a Utilization Conference in Peoria. The program was well planned and substantial interest was created by the first Conference, and because of the success the project plans are now being made for a second Conference to be held in Chicago.

Dean R. E. Gibbs of Bradley University made a survey of those who attended the 1958 meeting, and it was indicated that another Conference should be held in 1959 or early 1960 in the Chicago area.

The former President's Committee for Engineers and Scientists has been absorbed into the Office of Civil and Defense Mobilization in Washington and the latter Agency is continuing to cooperate in promoting and planning Utilization Conferences in the several States.

Dr. W. H. Torpey, OCDM coordinator of the Engineers and Scientists Conferences, has offered full cooperation of his Office in holding this year's meeting.

A planning committee has been established and tentative date set to hold the Conference at the Edgewater Beach Hotel in Chicago, December 1 and 2. The planning committee met at the LaSalle Hotel, Saturday, September 19th, to plan the program for the December Conference. A second committee meeting is set for September 28.

Dr. Torpey has advised that the theme for the second Conference will be on "HOW TO DO IT" which will be an entirely different program and somewhat of a continuation of last year's meeting, and will be of particular interest to those who attended previously as well as to those who did not attend in 1958 in Peoria.

Northwestern University Technological Institute will cooperate with ISPE in sponsoring the December meeting. Also, the Illinois Manufacturer's Association has agreed to assist in publicizing the event through the organization's news letters and bulletins.

Forty or more representatives from various industries throughout the State were invited to participate as members of the planning committee.

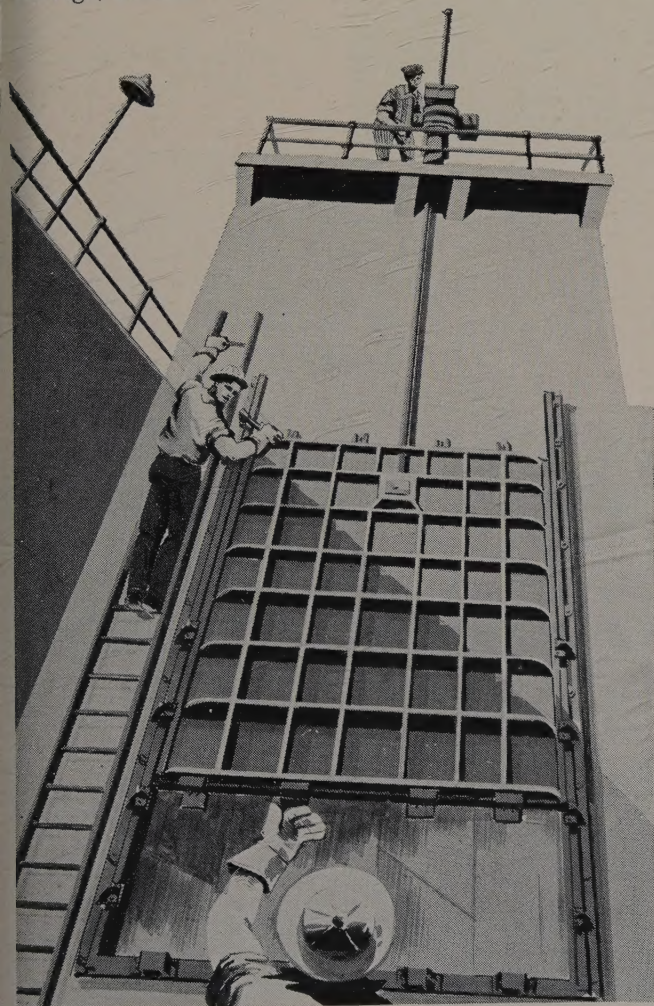
SALT CREEK CHAPTER

Salt Creek Chapter held its first of the "new season" meetings on September 9 at Johnny's Restaurant, LaGrange Park. Speaker was Mr. Robert Whipple Mason, British Consul General, whose subject was "On the Beaten Track."

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RECOGNITION DINNERS

Annual Recognition Dinners honoring newly registered Professional Engineers are being planned by ISPE Chapters. These dinners have become an important part of the Society's yearly program.

The Department of Registration and Education recently announced the names of 230 persons who were successful in passing the recent examination for Professional Engineers. There were 286 Engineers-in-Training who became certified with the Department. The number of Structural Engineers who became registered was 19.

Invitations will be sent to each new registrant inviting him to attend Chapter dinner in his area.

Definite plans have already been made for a joint recognition dinner in Decatur on October 13th. The Chapters participating in this joint program are Central Illinois, Capital, Champaign and the new Bloomington Area Chapter.

The Egyptian Chapter has planned tentatively for a recognition dinner on or about October 1st. Joliet Chapter's dinner is set for October 28, and the Lake County's for October 21.

The Chicago area, which always has the largest number of new registrants and the largest attendance, is planning for a dinner, or dinners, in the greater Chicago area. In past years one huge dinner has normally been held in the Chicago Engineers Club, however, this year there are four new Suburban Chapters—North Shore, Northwest Suburban, Salt Creek and Sauk Trail—and it has not been determined whether a joint central dinner or separate dinners by each Chapter will be held this year. The Illinois Engineering Council cooperates in the Chicago affair.

DuKane, St. Clair, Madison and Illinois Valley Chapters had interesting programs recognizing new engineers in their areas last year, and it is assumed that plans will be announced by these Chapters soon.

Each Chapter is reminded to inform State Headquarters as soon as possible of the dates of their respective dinners in order that proper coordination may be effected and publicity may be given in the ILLINOIS ENGINEER.

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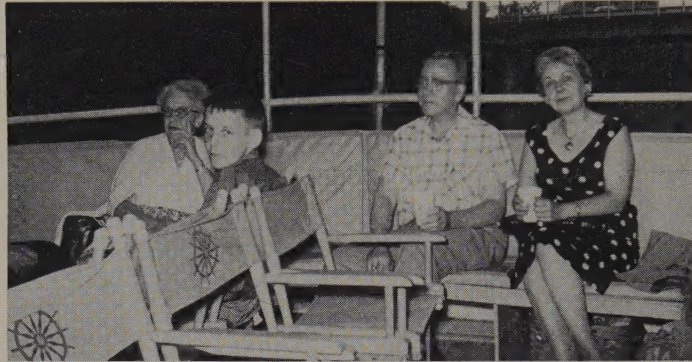
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SAUK TRAIL CHAPTER TAKES EXCURSION



ANTIGUA—Charter Boat on which Sauk Trail Chapter engineers took an 8-hour cruise through Locks Waterway and Lake Michigan.

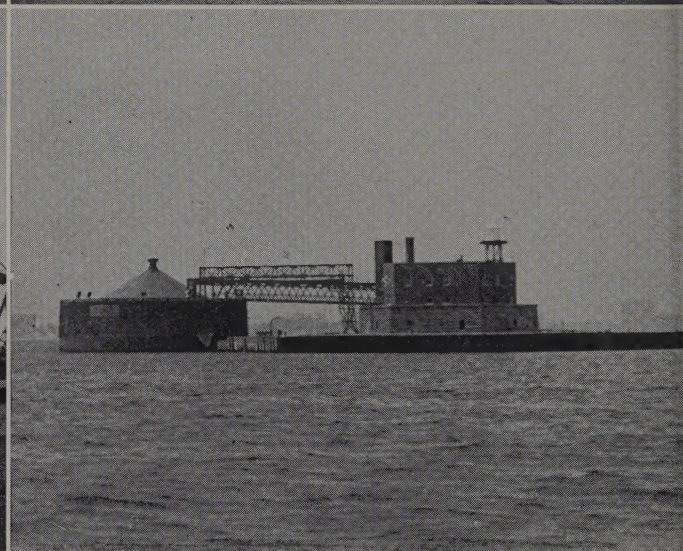
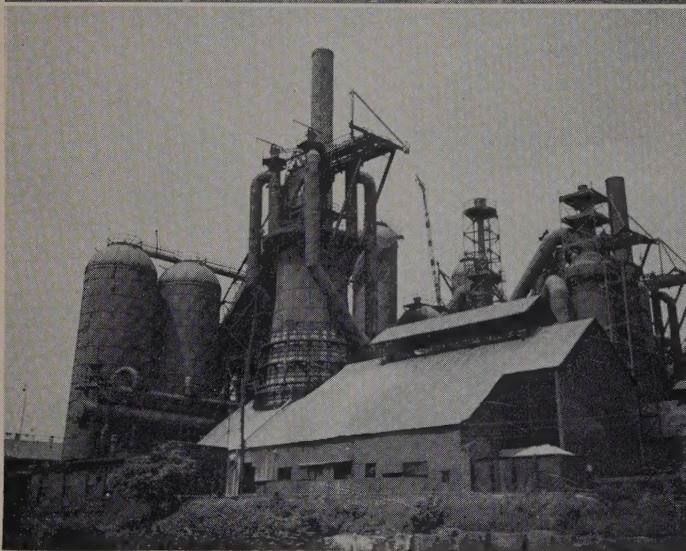
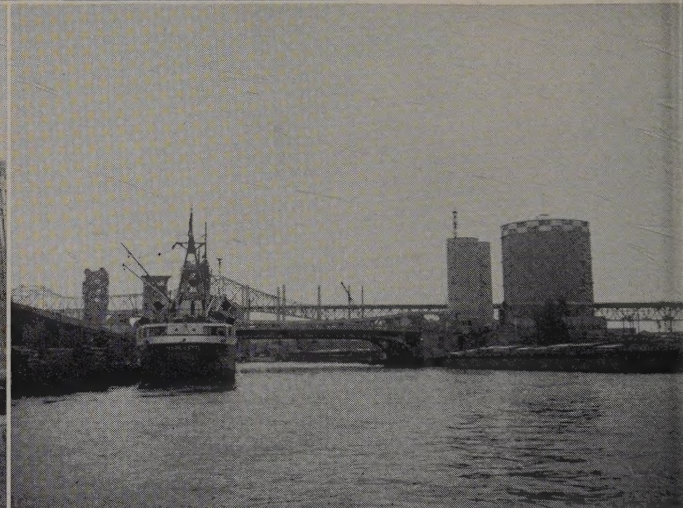
Below — World's largest commercial building, the Merchandise Mart, rises majestically alongside Chicago River.



Above — Mrs. Ivan L. wife of Sauk Trail Chapter Secretary.

Left—On Chicago Waterways cruise.

Below—Entrance to Calumet Harbor.



A Calumet steel mill has ghostly look during steel strike.

A water crib which supplies water to Chicago from Lake Michigan.

NEW NORTH SHORE CHAPTER

Dr. John A. Logan, Chairman of Northwestern University's Department of Civil Engineering was the guest speaker on May 13 at the regular monthly meeting of the New North Shore Chapter.

Dr. Logan discussed current national trends in engineering education as influenced by today's needs for wider knowledge of the basic sciences. He also discussed the status of engineering registration at Northwestern.

Each spring all graduating seniors are sent letters by the Dean of Engineering, Harold Gotaas, inviting them to take the Illinois EIT examination on the campus. On the average, 30 to 50 per cent of the students take the exams. While this is not a high percentage Dr. Logan had an explanation for the relatively low proportion. First of all, the \$10.00 fee is perhaps a deterrent to some and secondly over one-third of NU's graduating engineering students continue into graduate school. At the same time, there is no real faculty effort to encourage registration.

Out of a sampling of about 75 staff members, Dr. Logan estimates that less than 10 are presently registered and even fewer are members of ISPE. Dr. Logan attributes this to a changing picture of the undergraduate curriculum. More and more emphasis is being placed on the basic sciences such as mathematics, physics and chemistry. At the same time, less time is left over for specialization in the various branches of engineering, such as mechanical, electrical, chemical and civil.

Also, each branch is edging closer to the nuclear age. Mechanicals and electricals move nearer nuclear physics, chemicals and civils move nearer radioactive products and wastes. This trend makes all branches more closely allied in purpose than even before.

Another change since World War II has been the basic training faculty members. It used to be that a man was expected to acquire 10 or 15 years of field experience in industry or consulting before returning to ivy-covered walls to teach.

However, today's faculties are more scholarly than their predecessors. They tend to proceed from their B.S. degrees through their masters and doctorates directly to permanent staff positions. Therefore many faculties lack professional field experience.

This tends to shield them from knowing the need for and the advantage of engineering registration. They have attained professional standing in education by their acquisition of advanced degrees. They would not be so likely, therefore, to retain a comradeship with undergraduate classmates who left with the B.S. degree to enter the engineering field without staying for their masters' degree.

Dr. Logan also reminded the meeting of the fact that 50 percent of all engineering graduates leave en-

gineering sometimes during their careers. He pointed out that over half of top U.S. executives have engineering or scientific training, whereas the law formerly furnished the majority of these leaders. He regards this as having both good and bad aspects.

It is good that bankers, corporations, business and government recognize the high caliber of students graduating from engineering schools. On the other hand the field of engineering loses some of its best talent to better paying non-technical positions.

As for the best means of acquainting engineering students with the need for registration and the aims and activities of the professional societies Dr. Logan suggested a six point approach:

1. Arrange talks by professional engineers to be delivered before organized groups of students.
2. Stress Engineers Week on campus. A concentrated approach at this time of year to impress students with the importance and attractiveness of the engineering field.
3. Work with the Educational Council for Professional Development. Dr. Logan cited the fact that ECPD accreditation teams make no attempt to check the registration status of a faculty as a part of their process. The latest team to visit Northwestern contained no practicing professional engineer. Dr. Logan terms this a deficiency in accreditation procedure.
4. Improve the status of the profession. Dr. Logan believes that there is a great need for ISPE and NSPE to make the profession more professional. He believes that the amenities are important to the professional environment. Such things as drafting room "bull pens" deter some graduates from thinking that they are entering a profession. Private desks and certain privileges are believed to be "little things" that would help make the profession more attractive.
5. Stress the new developments in organizations such as the "Future Scientists of America." Local and state professional organizations could help by sponsoring such worthwhile fledgling societies.
6. Help attract the highest quality students from high school to engineering colleges. Some work of this sort is already being done by scholarships and scientific study clubs for talented teenagers.

Dr. Logan summarized his prepared talk by stating that the problem of getting the young graduate to accept professionalism as a culmination to formal education is extremely important. He emphasized that the problem offers both a great opportunity and a great challenge.

In the lively discussion that followed Dr. Logan's stimulating talk C. J. McLean, National Director of

(Continued on Page 10)



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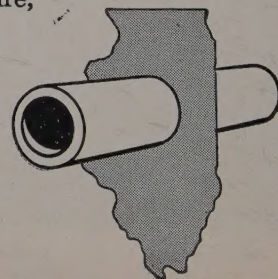
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Upper left, l. to r.—Mr. and Mrs. Henry Hahn and Mr. and Mrs. Ralph Hahn, with baby, relax after a hearty meal. Upper right, l. to r.—Mr. and Mrs. Clarence Klassen and Miss Kay Paulsell. In background, Ralph Hahn and Jake Whitlock chat.

Lower left, l. to r.—Mr. and Mrs. Gerald Margrave and Mr. and Mrs. Chas. Ritchie.

Inset—Leslie Ritchie, daughter of Vice President and Mrs. Chuck Ritchie, enjoys a cold drink.

Lower right, l. to r.—Mrs. Oscar Rhodes, Kenneth Paulsell, and Mr. Rhodes. Ken is an EIT member of Capital Chapter on vacation from his job in Venezuela, and is the son of Office Manager Mary Watt.



MEMBERS OF CAPITAL CHAPTER AND THEIR FAMILIES

ENJOY ANNUAL PICNIC

BEFORE FALL MEETING SCHEDULE

THE ENGINEER

From "THE BENCHMARK"

Verily, I say unto you, marry not an engineer for the engineer is a strange being possessed of many devils: yea, he speaketh eternally in parables, which he calleth "formulas," and he wieldeth a big stick which he calleth a slide rule, and he hath but one Bible—a handbook.

He talketh always of stresses and strains, and without end of Thermodynamics. He showeth always a serious aspect and seemeth not to know how to smile; and he picketh his seat in the car by the springs therein and not by the damsel beside him; neither does he know a water-fall except for its power, nor the sunset except for her specific heat.

Always he carrieth his books with him, and he entertaineth his maiden with steam tables. Verily, though his damsel expecteth chocolates, when he calleth he openeth the packages to disclose samples of iron.

Yea, he holdeth his damsel's hand, but only to measure the friction, and kisses but to test viscosity. For in his eyes shineth a far-way look which is neither love nor longing—but a vain attempt to recall a formula.

NEW STATE PLUMBING CODE AVAILABLE

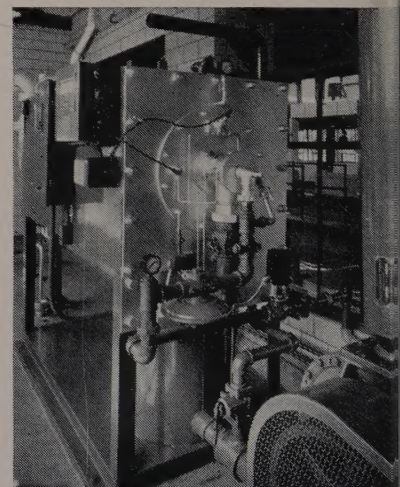
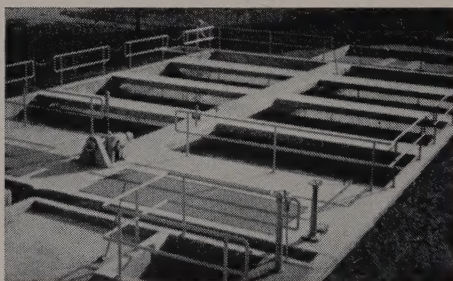
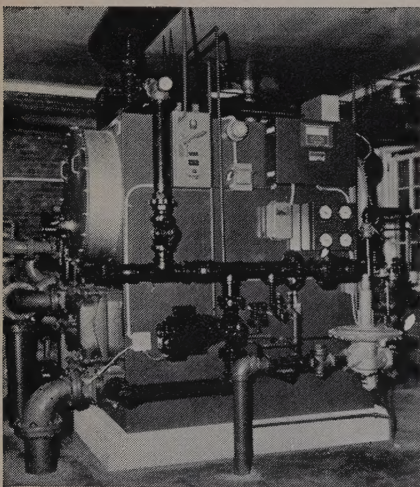
Copies of a new Illinois Plumbing Code are available by writing to the State Department of Public Health, Division of Sanitary Engineering, State Office Building, Springfield, Illinois. No charge is made for the publication.

There is but one key dear to his heart, and that is the Tau Beta Pi key; and one love letter for which he yearneth, and that an "A"; and when to his damsel he writeth of love and signeth with crosses, mistaking not these symbols for kisses but rather for unknown quantities.

Even as a young boy he pulleth a girl's hair to test its elasticity, but as a man he discovers different vices; for he would count the vibrations of her hair strings and reckon her strength of materials; for he seeketh ever to pursue the scientific investigations, and inscribeth his passion in a formula; and his marriage is a simultaneous equation involving two unknowns and yielding diverse answers.

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Top—Rectangular Collectors at Morris; Baxter & Woodman, Consulting Engrs.
Right—CARBALL, CO₂ producer at Moline; Greeley & Hanson, Consulting Engrs.

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ILLINOIS WATER SUPPLY CONFERENCE HELD IN SPRINGFIELD

By C. J. McLEAN

Professional engineers in Illinois are taking an active and leading part in a very important activity of the Illinois State Chamber of Commerce. This organization is pioneering in the field of making the public aware of water supply and water conservation problems in the state. Its Third Conference, held in Springfield, on Thursday, August 27, brought to Springfield outstanding nationally-known speakers on this subject and attracted industry representatives interested in water supply from the entire state. The conference was sponsored by the Water Resources Committee of the Chamber of Commerce. This Committee, made up of industry leaders from the entire state, includes among its membership many professional engineers active in the Illinois Society. The Chairman of the Committee this year is Alex Van Praag, of Decatur, Past President of the Society. Other I.S.P.E. members on the Committee are: Edward E. Alt, Edward J. Nealy, Clarence W. Klassen, C. J. McLean, Harry E. Schlenz, A. D. Spicer, and K. K. Stapleton. Mr. Herbert

E. Hudson, Jr., of New York City, and formerly in Urbana, was one of the speakers on the program.

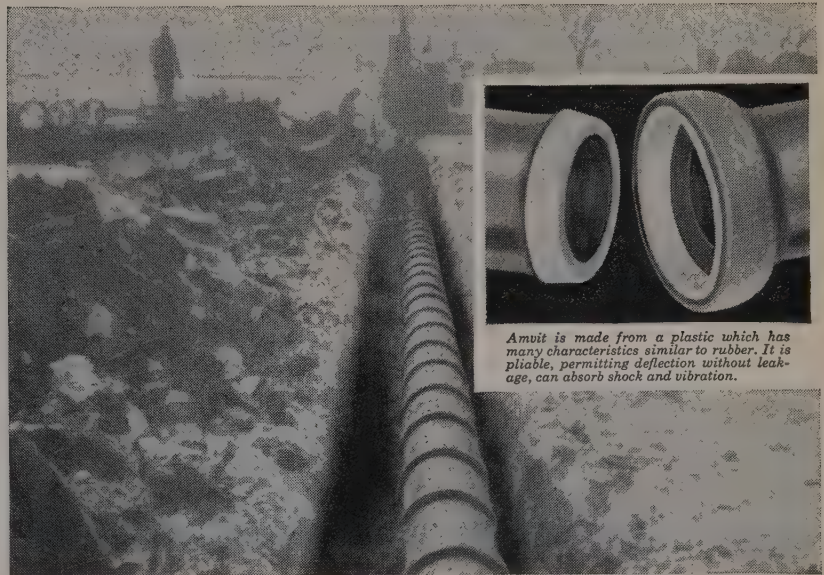
In addition to the above engineers, a great many other members of the Society interested in water problems and in the aims and purpose of the Conference attended the meeting. It was pointed out in the Conference that conservation measures and the solution of water supply problems are the responsibility of competent engineers versed in this subject of water supply. It is the duty of professional societies familiar with these problems to do more to get reliable information to businessmen, legislators, and the public. The problems are often technical and require an engineering approach for proper solution, but legislation for and public approval of projects related to water supply require a broad understanding by industry, city, and state officials, and concerned citizens. The activity of the several members of the Illinois Society of Professional Engineers on this Water Resources Committee indicates that members of this Society are recognizing their responsibility in this type of public service. More members of the Society should take part in this and similar types of public committee activities that are concerned with problems related to engineering.

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NEW NORTH SHORE CHAPTER—

(Continued from Page 5)

NSPE, presented an excellent case for professional attitudes by engineers. Mr. McLean stressed that individual responsibility and sense of duty to the public and his profession are "musts." The individual engineer has this responsibility regardless of whether he is a private consultant, public service engineer, corporation engineer or engineering educator.

Officers elected during the meeting were: President, William F. O'Brien, Glenview; Vice President Sander B. Friedman, Skokie; Secretary-Treasurer, Peter E. Hasse, Evanston; and Chapter Representative to State Board, Joseph C. Ellis, Evanston.

I.S.P.E. INSURANCE COMMITTEE CONTINUES STUDY

The special Insurance Committee of I.S.P.E. is continuing its study and consideration of a group life plan and anticipates having specific recommendation to the Board of Direction at its November meeting.

The National Society of Professional Engineers will hold its fall meeting October 15-17 at the Penn-Sheraton Hotel in Pittsburgh, Pennsylvania.

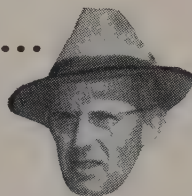
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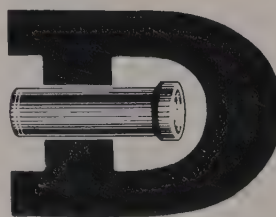
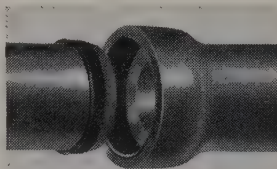
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CENCO INSTRUMENTS ACQUIRES SOILTEST INC.

CHICAGO—Cenco Instruments Corp., one of the leading manufacturers and distributors of scientific apparatus and laboratory supplies, has announced the acquisition of Soiltest, Inc., Chicago, manufacturers of engineering test apparatus for soils, concrete, asphalt, and similar materials.

The company was acquired from its youthful owner and co-founder, 36-year-old Theodore W. Van Zelst, for 18,000 shares of Cenco common stock and an undisclosed amount of cash.

John T. Gossett, chairman of Cenco, said the newly acquired company will be operated as a subsidiary of Cenco, with no changes in management. Other Cenco subsidiaries include Central Scientific Company, Chicago; Refinery Supply Company, Tulsa, Okla.; Atomic Laboratories, Berkeley, Calif.

Soiltest, Inc., has sales representatives in 105 different countries and its products are being used in 105 different nations. The firm's testing apparatus is used in the construction field, agriculture, industry, schools, research laboratories, and by government agencies.

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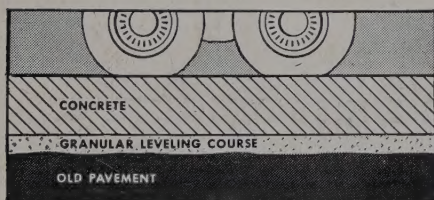
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